#### F : 8

HP02573	61,	HPUZ573 61' YGRQDLHLRIFDPSPEDIARADNIFTATERNRIDYVSSAVRIDHAPDLPRPEVCFIGRSN
		*** * * * * * * * * * * * * * * * * * *
Cgpa	<del>-</del> +	MFFAQPVSFIMGAVRMDAMPPSDLPEVAFAGRSN
нР02573	121'	121' VGKSSLIKALFSLAPEVEVRVSKKPGHTKKMNFFKVGKHFTVVDMPGYGFRAPED ************************************
CgpA	35#	ARVSR
HP02573	176'	176' FVDMVETYLKERRNLKRTFLLVDSVVGIQKTDNIAIEMCEEFALPYVIVLTKIDKSSKGH * * * * * * * * * * * * * * * * * * *
CgpA	93"	
нР02573	236	236' LLKQVLQIQKFVNMKTQGCFPQLFPVSAVTFSGIHLLRCFIASVTGSLD  * * * * *
CgpA	153"	153" VDKVVAETQKAIAKRAAA-FPRVLATSSEKGLGMPELRAEIVRLCIDE

Company of the programment of the company of the co

61. KVPLAGGGRKPRLHRRHRVYKLVEDTKHRPKENLELILTQSVENVGVRGDLVSVKKSLGR HP02612

MKLILTADVDHLGSVGDTVEVKDGYGR RL9 MYCLE

HP02612 121' NRLLPQGLAVYASPENKKLFEEEKLLRQEGKLEKIQTKAGEALGVVVAPHTLKLPAEPIT 

RL9\_MYCLE 28" NFLLPHGLAIVASRGAQRQADEIRRAR-ETKAMRDREHANEIKVAIEALGSVSLPMKTVA

RL9\_MYCLE 87" DSGKLFGSVTAGDVVAAIKKAGGPNLDKRIVRLPKTHIKAVGTHPVSVHLHPEVDVVULL \*\*\*\*\*

HP02612 181' RWGEYWCEVTVNGLDTVRVPMSVVNFEKPKTKRYKYWLAQQAAKAMAPTSPQI

. В В

ၑ

61' KAKGKGQSQTRVNINAALVEDIINLEEVNEEMKSVIEALKDNFNKTLNIRTSPGSLDKIA MSDAFDINDLKRRMEGAVNALKHDLGGLRTGRASASLLEPIT 121' VVTADGKLALNQISQISMKSPQLILVNMASFPECTAAAI-KAIRESGMNLNPEVEGTLIR 43" IEAYGSTMPINQVANISV--PESRMLSVSVWDKSMVGAVERAIRDSGLGLNPITDGMTLR 180' VPIPQVTREHREMLVKLAKQNTNKAKDSLRKVRTNSMNKLKK-SKDT-VSEDTIRLIEKQ RRF\_BRUME 101" IRLPELNEQRRKELVKIAHQYAEQGRIAARHVRRDGMDQLKKLEKDSVISQDESRVLSEK RRF\_BRUME 161" VQKLTDDTIAEMDKIVAVKEGEIMQV 238' ISQMADDTVAELDRHLAVKTKELLG RRF\_BRUME RRF\_BRUME HP10117 HP10117 HP10117 HP10117

트 명 .

1 MORVSGLLSWTLSRVLWLSGLSEPGAARQPRIMEE-KALEVYDLIRTIRDPEKPNTLEEL HP10120

1" MGQERLDNANPTLFDSKPRHRPVTGTERDESVEDPIDSWEIFDLIRDINDPEHPYTLEQL **CEF45G2** 

61" NVVQEELIKV-FIDEEETFVKVNFTPTIPHCSMATLIGLAIRVKLLRSLHPKVKVSVSIT **CEF45G2** 

1 MAAAGLALLCRRVSSALKSSRSLITPQVPACTGFFLSLLPKSTPNVTSFHQYRLLHTTLS  ** * *	MGEAIVRWSALAAHLLFFGSKVFSKIFYFLA	61' RKGLEEFFDDPKNWGQEKVKSGAAWTCQQLRNKSNEDLHKLWYVLLKERNMLLT  ***** *.**********************	58" RFSSTMKQFFDDEANFGKAELRPKHRPGRSWTAEELRLKSNSDLHKLWYVCLKERNMLIT	HP10421 115' LEQEAKRQRLPMPSPERLDKVVDSMDALDKVVQEREDALRLLQTGQERARPGAWRRDIFG	B0261.4 118" MKKAHTSRARNMPNPERLDRVHETMDRIESVVHERNDAVFRLETG-ESAAPRKRTITSFA	HP10421 175' RIIWHK-FKQWVIPWHL-NKRYNRKRFFALPYVDHFLRLEREKRARIKARKENLERK*	B0261.4 177" GFTYQKQATEHFAPPQLGQKEYETPYLDDDAYVMQKLWQEKEFMKNRDRLDDEKRRAART
<del>-</del>	1.	61	58"	115	118"	175	177"
HP10421	B0261.4	HP10421	B0261.4	HP10421	B0261.4	HP10421	B0261.4

B0261.4 237" EDMDRFKRGAPRVFNR

HP10421 230' KAKILLKKFPHLAEAQKSSLV

# 

HP10582	-	MDSNHQSNYKLSKTEKKFLRKQIKAKHTLLRHE-GIETVSYATQSLVVANGGLGN
YKY5_CAEEL	361"	** *
HP10582	55	RNQLLPV-LEK
YKY5_CAEEL	421"	GVSLEELEETFLPLDELAEFIVYPNKRSYSFVQCSSIEKSIQVRTELHGLIPPSLKNSHQ
HP10582	114	WKELRPQALPPGLMVVEETISSEEERMLLESVDWTEDTDNQNSQ
YKY5_CAEEL	481"	PFAISYVENLPEATRCEDFRPANLKIIEEYVSSDLEKELVDLVTNHPSVQSLKH
HP10582	174	RRVKHFGYEFHYENNNVDKDKPLSGGLPDICESFLEKWLRKGYIKHKPDQMTINQYEPGQ
YKY5_CAEEL	535"	RAVVHFGHVFDYSTNSASEWKE-ADPIPPVINSLIDRLISDKYITERPDQVTANVYESGH
HP10582	234	
YKY5_CAEEL	594"	SHYDTHSAFDDPIVSISLLSDVVMEFKDGANSARIAPVLLKARSLCLIQGESRY
HP10582	292	HGITCRKFDTVQASESLKSGIITSDVGDLTLSKRGLRTSFTFRKVRQTPCNCSYPLVCDS
YKY5_CAEEL	654"	HGIVNRKYDVDPRTNRVVPRQTRVSLTLRKIRRKPCECEWKEFCDW

YKY5\_CAEEL 931" SVQGCKLISVEKEQGNY-IIIAKKI

### Fig. 6-1

HP10582	352	QRKETPPSFPESDKEASRLEQEYVHQVYEEIAGHFSSTRHTPWPHIVEFLKALPSGSIVA
YKY5_CAEEL	700"	SE-MSVPSNEDLALKLENSYVSDVYENIASHFDETRHSSWKJ
HP10582	412'	DIGCGNGKYLGINKELYMERRVAALQEIVRLLRPGGKALIYVWAMEQEYNKQKSKYLRGN
YKY5_CAEEL	759"	DVGCGNGKYL-IPKDGLLKIGCDMCMGLCDIARKKDCHVARCDALALPFRYESAD
HP10582	472:	RNSQGKKEEMNSDTSVQRSLVEQMRDMGSRDSASSVPRINDSQEGGCNSRQVSNSKLPVH
YKY5_CAEEL	813"	AAISIAVLHHIATFERRKRLIEELLRVVKPGSKICVT-VWSMDQSQSEYAKMRGNKDDV-
HP10582	532+	VNRTSFYSQDVLVPWHLKGNPDKG-KPVEPFGPIGSQDPSPVFHRYYHVFREGELEGACR
YKY5_CAEEL	871"	AAAPAVSSEETQTTNRLKVHDGKDFEQQDVLVPWTIDQKGETFLRYYHVFREGEAEKLIE
HP10582	591'	TVSDVRILQSYYDQGNWCVILQKA

. . .\_ L

MAMSFEWPWOYRFPFFTLQPNVDTRQKQLAAWCSLVLSFCRLHKQSSMTVMEA 1" MAAATTTASAFKWPWQYDFPFFFTIQKSLNTKDKQLEAWARLVIDYAQHNKIYSLDIAEA -HP10149 W02A11

QESPLENNVKLQRKLPVESIQIVLEELRKKGNLEWLDKSKSSFLIMWRRPEEWGKLIYQW 55 HP10149

61" TTSELFNNQKLNRRLSTDGVNTVLQYLEQKKLIEFTDNGRTRFHIFWRRPDVWANMIYQW W02A11

HP10149 115' VSRSGQNNSVFTLYELTNGEDTEDFEFHGLDEATLLRALQALQQEHKAEIITV-SDGRGV

121" AVENAFINTPLILYEITHGDDTTNESFHNLEREILMKALTCLEEQRRAQLMNIGGDNEGV W02A11

HP10149 174 KFF

181" KFI W02A11 CARSONS LABORDA

F .

 $\infty$ 

1 MASRGKTETSKIKQNLEEQLDRIMQQLQDLEECREELDTDEYEETKKETLEQLSEFNDSL MGVDDLLIKNAQKTIDRLIRQLAEIEQEENNLEEDEYRELREDTVNQLQEYGKIV 61' KKIMSGNMTLVDELSGMQLAIQAAISQAFKTPEVIRLFAKKQPGQLRTRLAEMDRDLMVG 56" ERLQGGDVSLIDDLTATKIAIRTAISKAFKTPEIMALFAGKHTGLLREKLMMTETNYRSQ = HP10160 HP10160 ZK1248 ZK1248

116" KMPKQGYLERKFEILMALRRLEETLTEDERKFLSDRLET--PEFQLIEANANRLFSGNVT ZK1248

HP10160 121' KLERDLYTQQKVEILTALRKLGEKLTADDEAFLSANAGAILSQFEKVSTDLGSGDKILAL

HP10160 181' ASFEVEKTKK

174" SPVFRVQIMASPKKPKKVRLDDKTENVSPPWKAWWHTEKKRKFYTNDKTKESLWDHPNTR ZK1248

1' MKILITHNILSSHVRGVGSRGFPIRLQATEVRICPVEFNPNFVARMIPKVEWSAFIEAADN 1" MKLFVHNFMSSRFLKNVTVGYPLNLVVKQFVEKDIEFDRDNTIVMLDRIQYEALIVAAAA 61' LRLIQ-VPKGPVEGYEE-NEFFLRTWHHLLLEVEVIEGTLQCPESGRMFPISRGIPNMLL 61" VNQSDRIPREKPEKWDELTDEQLRVFHHILMNIDVIDGELICPETKTVFPIRDGIPNMLK HP10173 119' SEEETES HP10173 HP10173 C04H5 C04H5

121" VDAEK

C04H5

# resoles loszot

### i g 10-1

' DDIVIESEALPSDIAAEARAKTGGTVSDQALLÆGDDDAGEGPSSLIREKPVPRQNENEEE		NLDREQIVENLRQELDDRSATCKAYPKRPLL	······································	ILVGCMSTQKQQRML-NRRPEIVVATPGRLWELIKEKHYHLRNLRQLRCLVVDEADRM *** ** * * * * * * * * * * * * * * * *	Ŋ	VEKGHFAELSQLLEMINDSQYNPKRQTLVFSATLTLVHQAPARILHKKHTKKMDKTAKLD **.*.*	LLAQKIGMR-GKPKVIDLTRNEATVETLTBTKIHCET-DEKDFYLYYFLAQYPGRSLVFA 
300	263"	360 '	323"	420	383"	477' v	537 1
HP02644	CELF55P8	HP02644	CELF55F8	HP02644	CELFSF8	HP02644	HP02644

CELLF55F8 803" NOKIDETKEWRREGRRATREDEMNSMKRSLKSSOKNKERLAEKKKKEKAAKVTKLSETD

834 9-KOKKKKTIKKPKEPQPEQPSTSAN

HP02644

### Fig. 10-2

ASSIGGE IGESAL

# Desorges of the second

#### F 9

HP03233 HP03233 HP03233 HP03233 HP03233	1'' 61' 58" 118'' 178' 150"	HP03233 1' MAAPGSCALWSYCGRGWSRAMRGCQLIGGLRSSWPGDLLISARLLISQEKRAAETHFGFETVS * . * * * * * * * * * * * * * * * *
HP03233	235	HP03233 235' VLKPGGRFLCLEFSQVNNPLISRLYDLYSFQVIPVLGEVIAGDWKSYQYLVESIRRFPSQ ***** * * * * * * * * * * * * * * * *
SPUBM	210"	210" VLKPGGVFSCLEFSKVYPAPLAELYRQYSFKILPLLGTIIAGDSQSYEYLVESIERFPDA
нР03233	295	EEFKDMIEDAGFHKVTYESLTSGIVAIHSGFKL
SPUBM	270"	270" KTFAKMIEDAGFTLAGETGYETLSFGIAAIHTGIKL

HP10437 1' MQKSCEENEGKPQNMPKAEEDRPLEDVPQEAEGNPQPSEEGVSQEAEGNPRGGPNQPGQG	1" MKSCQKMEGKPENESEPKHEEEPKPEEKPEEEKLEEEAKAKGTFRERLIQSLQE	HP10437 61' FKEDTPVRHLDPEEMIRGVDELERLREEIRRVRNKFVMMHWKQRHSRSRPYPVCFRP	56" FKEDIHNRHLSNEDMFREVDEIDEIRRVRNKLIVMRWKVNRNHPYPYLM
-	=	61	95
HP10437	pp21	HP10437	pp21

1' MELSAEYLREKLQRDLEAEHVEVEDTTLNRCSCSFRVLVVSAKFEGKPLLQRHRLVNACL HP10525

SPAC8C9 1" MVNAQQLELLIQNTLEPTHIEIQDM-SGGCGQNFEVIIVSPLFEGKSTLARHRLVNHKL

HP10525 61' AEELPHIHAFEQ-KTLTPDQWARERQK

\*\* \* \*\*\*\* \*

SPAC8C9 59" QEVIKDIHAFTQVRTLSFRHIR

F i g. 1

4

1 MAATEPILAATGSPAAVPPEKLEGAGSSSAPERNCVGSSLPEASPPAPEPSSPNAAVPEA MAAPQPSQDPQSPAAPPEQQEGAGDCA 61' IPTPRAAASAALELPLGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQRFRQFRYQDAA \*\*\*\*\*\*\*\*\*\*\*\*\*\* 28" APSPDSGSSPAPELPGAPAALNTAPYADAVLR----PGASRPGPETFRQRFRQFRYQDAA 84" GPREAFROLRELSROWLRPDIRTKEQIVEMLVQEQLQAILPEAARARRLRRRADVRITG HP10543 121' GPREAFRQLRELSRQWLRPDIRTKEQIVEMLVQEQLLAILPEAARARRIRRRTDVRITG \* HP10543 HP10543 LEAP1 LEAP1 LEAP1

HP03090	1-	1 MAARRALHFVFKVGNRFQTARFYRDVLGMKVLRHEEFEEGCKAACNGPYDGKWSKTMVGF	
CEHYPO	1"	MTA	
нР03090		61. GPEDDHFVAELTYNYGVGDYKLGNDFMGITLASSQAVSNARKLEWPLTEVAEGVFETEAP * ** ** * * * * * * * * * * * * * * *	
CEHYPO	09	60" GSEDEHFVLEI'FYNYPIHKYELGNDYRAIVIDSDQLFEKVEKINHRKSGCGRLAVKDP	
HP03090	121	HP03090 121' GGYKFYLQNRSLPQSDPVLKVTLAVSDLQKSLNYWCNLLGMKIYEKDEEKQRALLGYADN * * * * * * * * * * * * * * * * * * *	
CEHYPO	118"	CEHYPO 118" DGHEFKIGKADQSPKVLRVQVNVGDLEKSKKYWNETLGMPIVEEKSSRIRMSYGDG	
ир03090	181'	HP03090 181 QCKLELQGVKGGVDHAAAFGRIAFSCPQKELPDLEDLMKRENQKILTPLVSLDTPGKATV ** ** * * * * * * * * * * * * * * * *	
CEHYPO	174"	CEHYPO 174" QCELEIVKSQDKIDRKTGFGRIAFSYPEDKLESLQDKIKSANGTIINELTTLETPGKADV	
HP03090	241	HP03090 241' QVVILADPDGHEICFVGDEAFRELSKMDPEGSKLLDDAMAADKSDEWFAKHNKPKASG	
CRHYPO	234"	CRHVPO 234" OWIT ADPRENE TRANSPARIE SKINDKARSKETKROTKKONSKWI	

# 

#### F i g . 16

HP03145	<del>-</del>	1' MLGSRAAGFARGLRALALAWLPGWRGRSFALARAAGAPHGGDLQPPACPEPRGRQLSLSA
scco02	1"	MIIKPIASPARYFLRTPSWSAVAIFQAVKIKPLQLRTNSSNSVTPNLISPSK
HP03145	61,	61 ' AAVVDSAPRPLQPYLRIMRLDKPIGTWLLYLPCTWSIGLAAEPGCFPDWYMLSLFGT * * * * * * * * * * * * * * * * * * *
scc002	53"	KSWKDLFSKRWQYYAEISRAGSPTGTYLLYSPCTWSILMAAYAYDSSLVNVTK
HP03145 118	118	GAILMRGAGCTINDMWDQDYDKKVTRTANRPIAAGDISTFQSFVFLGGQLFLALGVLLCL * *** ** ** * * * * * * * * * * * * *
scco03	113"	GSFLMRSAGCVINDLWDRELDAKVERSKSRPLASGKLSVRQAISLLSVQLTASLGILLQL
HP03145	178	NYYSIALGAGSLLLVITYPLMKRISYWPQLALGLTFNWGALLGWSAIKG-SC-DPSVCLP
scco02	173"	NPYTIKLGVASLVPVCIYPAMKRITYYPQVVLGLTFGYGAVMGWPALAGEACMNWSVVAP
HP03145 236	236	LYFSGVMWTLIYDTIYAHQDKRDDVLIGLKSTALRFGENTKPWLSGFSVAMLGALSLVGV
scco03	233"	LYLSTISWIVLYDTIYAHQDKRDDVKANIYSTALRFGDNTKPVLCGLAALQIATLATAGI
HP03145	296	Z
scc002	293"	MNGQGPVFYTLGVAGAAYRLSSMIYKVDLDDPKDCFRWFKRNSNTGYLVAA
HP03145	355	EKKTDKTKKGIENKIEN
scco02	353"	SFIYDS

### Fig 17

### 

Fig. 18

1. MAI.CALTRALRSI.NI.APPTVAAPAPSI.FPAAQMMNNGI.LQQPSAI.MI.I.PCRPVI.TSVAI.N	MGLKRFKPVTPGRRFMVI	61 · ANFVSWKSRTKYTITPVKMRKSGGRDHTGRIRVHGIGGGHKQRYRMIDFLRFRPEFTKSG * *** * * *** ** * *** ** ** * * * * *	19" SDFSDITKTEPEKSLLAPLKKTGGRNHHGRVTVRHRGGGHKRRYRIIDFKRYDKAG	HP03324 121' PFEEKVIQVRYDPCRSADIALVA-GGSRKRWIIATENMQAGDTILNSNHIGRMAVAAREG	75" -IPAKVLAIEYDPNRSARIALLLYADGEKRYILAPKGVNVGDTLMSGPDAEIRPG
H	<del>"</del>	61,	19"	121	75"
HP03324	BRPL2	HP03324	BRPL2	HP03324	BRPL2

129" NALPLEKIPVGTLVHNVEFTPGKGGQIARAAGTYCQIMAKEGNYALLRMPSGELRKVHIK

HP03324 180 DAHPLGALPVGTLINNVESEPGRGAQYIRAAGAGNVRSNSRPSIQR

BRPL2

Q Fig. HP10648 181' LTPRAPGSPRGQHEPSKPPPAGETVTGGFGAKKRKGSSSQAPASKKINKEELPVIPKGKP

MSTGANLLVMNDTC CEY40B1B

HP10648 241' KSGRVWKDRSKKRFSQMLQDKPLRTSWQRKMKERQERKLAKDFARHLEEEKERRRQEKKQ

CEY40B1B 15" KSNRWWKTKQEKKHSEIKKVKTLKSTWDKKMELKAKKDMVKRVQDNIREKQVQERQEKKE

HP10648 301' RRAENLKRRLENERKAEVVQVIRNPAKLKRAKKKQLRSIEKRDTLALLQKQPPQQPAAKI 

CEY40B1B 75" RKVEQEKRRLENERKAEIVQKITKIHKLKKTKKRQLRSIQMRDTTQVTK

HP10162	-	1 MEPQEERETQVAAWLKKIFGDHPIPQYEVNPRTTEILHHLSERNRVRDRDVYLVIEDLKQ
RNUNK	<del>.</del> .	1" maaleekasqvaewlkkifgdhpipqyemnartteilyhlsernrvrdrdvnlviedlrp
HP10162	61,	KASEYESEAKYLQDLLMESVNFSPANLSSTGSRYLNALVDSAVALETKDTSLASFIPAVN
RNUNK	61"	61" KASEYESEAKRLEDFLMESVNFSPANLSNTGSRFLNALVDSAIALEIKDTSLASFIPAVN
нР10162	121	DLTSDLFRTKSKSEEIKIELEKLEKNLTATLVLEKCLQEDVKKAELHLSTERAKVDNRRQ ***********************************
RNUNK	121"	121" DLTSDLFRTKSKSEEIKLELGKLEKNLTATLVLEKCLREDLKKADVHLSAERAKAEGRLQ
нР10162	181	HP10162 181' NMDFLKAKSEEFRFGIKAAEEQLSARGMDASLSHQSLVALSEKLARLKQQTIPLKKKLES
RNUNK	181"	181" NMDFLKAKAAEFRFGIRAAEEQLSSRGMDASLSHRSLVALSDKLSELKQQTIPLKKKLES
HP10162	241	HP10162 241' YLDLMPNPSLAQVKIEEAKRELDSIEAELTRRVDMMEL
RNIINK	241"	241" YLDLMPNPSLAOVKIEEAKRELDAIEAELTKKVDMMEL

1' MSGLRVYSTSVTGSREIKSQQSEVTRILDGKRIQYQLVDISQDNALRDEMR---ALAGNP HP10334

HP10334 58' KAT---PPQIVNGDQYCGDYELFVEAVEQNTLQEFLKLA

60" ATGYPLPPQIFNESQYRGDYDAFFEARENNAVYAFLGLTAPPGSKEAEVQAKQQA

назиз

нѕѕнз

# 

нР10532	÷	1. MAGSEELGLREDTLRVLAAFLRRGEAAGSPVPTPPRSPAQEEPTDFLSRLRRCLPCSLGR ************************************
нѕввк	<b>"</b>	1" MAGSEELGLREDTLRVLAAFLRRGEAAGSPVPTPP-SPAQEEPTDFLSRLRRCLPCSLGR
HP10532	61,	61. GAAPSESPRPCSLPIRPCYGLEPGPATPDFYALVAQRLEQLVQEQLKSPPSPELQGPPST ***********************************
изввк	09	60" GAAPSESPRPCSLPIRPCYGLEPGPATPDFYALVAQRLEQLVQEQLKSPPSPELQGPPST
HP10532		121' EKEAILRRIVALLEEEAEVINQK
нзввк	120"	120" EKEAILRRLVALLEEEAEVINQKLASDPALRSKLVRLSSDSFARLVELFCSRDDSSRPSR
HP10532 181'	181	******
изввк	180"	180" ACPGPPPSPEPLARLALAMELSRRVAGLGGTLAGLSVEHVHSFTPWIQAHGGWEGILAV
HP10532	241'	HP10532 241' SPVDLNLPLD ***********************************
нѕввк	240"	240" SPVDLNLPLD

MPVKKKRKSPGVAAAVAEDGGLKKCKISSYCRSQPPARLISGE	61" QTGSLRSCSSSDCFNKVMPPRKKRRPASGDDLSAKKSRHDSMYRKYDSTRIKTEE	EHFSSKKCLAWFYEYAGPDEVVGPEGMEKFCEDIGVEPENIIMLVLAWKLEAESMGFFTK  * **** ** ** ** ** * * * * * * * * *		HP10559 104' EEWLKGMTSLQCDCTEKLQNKFDFLRSQLNDISSFKNIYRYAFDFARDKDQRSLDIDTAK .************************************	176" QEWLKGMTSLQCDTTEKLRNTLDYLRSFLNDSTNFKLIYRYAFDFAKEKDQKSLDINIAA	SMI.ALLI.GRTWPLFSVFYQYLEQSKYRVMNKDQWYNVI.EFSRTVHADL.SNYDEDGAWPVI.	236" CMLGLLLGKIWPLFPVFHQFLEQSKYKVINKDQWCNVLEFSRTINLDLSNYDEDGAWPVL	LDEFVEWQKVRQTS ***** * * *	296" LDEFVEWYKDKQMS
<del>,</del>	61"	44	116"	104	176"	164'	236"		296"
HP10559	KIAA	HP10559	KIAA	HP10559	KIAA	HP10559 164'	KIAA	HP10559 224'	KIAA

6

# Damacada Car

HP10562	61.	61' QESEPEDFLKLFIDPNEVYCSEASPGSDSGISEDPCHPDSPPAPRATSSPMLYEVVYEAG
LZIP	<del>-</del>	MELELDAGDQDLLAFLLEESGDLGTAPDEAVRAPLDWALPLSEVPSDWEVDDL
HP10562	121'	HP10562 121' ALERMQGETGPNVGLISIQLDQWSPAFMVPDSCMVSELPFDAHAHILPRAGTVAPVPCTT
LZIP	54"	54" LCSLLSPPASLNILSSSNPCLVHHDHTYSLPRETVSMDLESESCRKEGTQMTPQHMEELA
HP10562	181'	HP10562 181' LLPCQTLFLTDEEKRLLGQEGVSLPSHLPLTKAEERVLKKVRRKIRNKQSAQDSRRKKE
LZIP	114"	114" EQEIARLVLTDEEKSLLEKEGLILPETLPLTKTEEQILKRVRRFIRNKRSAQESRRKKKV
HP10562	241'	HP10562 241' YIDGLESRVAACSAQNQELQKKVQELERHNISLVAQLRQLQTLIAQTSNKAAQTSTCVLI
LZIP	174"	174" YVGGLESRVLKYTAQNMELQNKVQLLEEQNLSLLDQLRKLQAMVIEISNKTSSSSTCILV
HP10562		LLFSLALIILPSFSPFQSRPEAGSEDYQPHGVTSRNILTHKDVTENLETQVVES
LZIP		** * * * * * * * * * * * * * * * * * *
HP10562 355	355	RLREPPGAKDANGSTRTLLEKMGGKPRPSGRIRSVLHADEM
0161	294"	. *

MSNMEKHLFNLKFAAKELSRSAKKCDKEEKAEKAKIKKAIQKGNMEVARIHAEN .************************************	1" MGAGESSMALEKHLFDLKFAAKQLEKNAQRCEKDEKVEKDKLTAAIKKGNKEVAQVHAEN	55' AIRQKNQAVNFLRMSARVDAVAARVQTAVTMGKVTKSMAGVVKSMDATLKTMNLEKISAL ***.**.**.*	61" AIRKKNEAVNYIKMAARIDAVAARVQTAATQKRVTASMSGVVKAMESAMKSMNLEKVQQL	HP10456 115' MDKFEHQFETLDVQTQQMEDTMSSTTTLTTPQNQVDMLLQEMADEAGLDLNMELPQGQTG	121" MDRFERDFEDLDVTTKTMEKTMDGTTVLNAPKSQVDALIAEAADKAGIELNQELPSNVPT	HP10456 175' SVGTSV-ASAEQDELSQRLARLRDQV
<del>.</del> H	<del>-</del>	55	61"	115	121"	175
HP10456	CEBC-2	HP10456	CEBC-2	HP10456	CEBC-2	HP10456

CEBC-2 181" ALPTGTQAVSEDKDLTERLAALRNM

# TGTGCGG,CGG,COL

Fig. 26

MATPSLRGRLARFGNPRRPVLKPNKPLILANRV-GERRREKGEATCITEMSVMMA  * * * * * * * * * * * * * * * * * * *	1" mmfssplikekalargksiypkvavfseilplasknrvqagqkpraasssctqelqalfg	55' CWKQNEFRDDACRKEIQGFLDCAAR-AQEARKMRSIQETLGESGSLLPNKLNKLLQRF * * * * * * * * . * . * . * . * . * . *	61" CLKKWEFDDVPCSKQHTLYMDCVHKGAEEAAAYRDATRKGTLGESGAGGKQSMTSAQFNK
<del>-</del>	<del>-</del>		61"
HP10498 1'	CEC24	HP10498	CEC24

CEC24 121" IQKLFPQPDLGKQPYRQMKRLPTQDYADDTFHRKHWSGKRS

HP10498 112' PNKPYLS

1. MAKHLKFIARTVMVQEGNVESAYRTLNRILTMDGLIEDIKHRRYYEKPCRRRQRESYERC HP10505

HP10505 61' RRIYNMEMARKINFLMRKNRADPWQGC

CEF29

\* \*\*\* \*\* \*\* \* \* \* \*

CEF29 49" TAIFNEDMNRKMKFLVRKNRPDKHPGQVTS

2 8 Fig. 1 MFLTAL-LWRGRIPGRQWIGKHRRPRFVSLRAKQNMIRRLEIEAENHYWLSMPYMTREQE HP10515

1" MHLTLINLFKKTVPGHIFRGKRRLVKPVSQRAMDTLTREYERQEQVMLLLRHPYLTMEQS \*\* \* \*\* \* \* \*\* \*\* \*\* \* **DM63B** 

HP10515 60' RGHA-AVRRREAFEA--IKAAATSKFPPHRFIADQLDHLMVTKKWS 

61" FGHAKELQKREKLVARWTDEQTLRKMKPHVTIEERLNQLKIKEAWD **DM63B** 

HP01124 1' MGTEKESPEPDCQKQFQAAVSVIQNLPKNGSYRPSYEEMLRFYSYYKQATMGPCLVPRPG

\*\*\* \*\*\*\* \* \*\*\*\* \* \*\*\* MSQAEFEKAAEEVRHL----KTKPSDEEMLFIYGHYKQATVGDINTERPG

HSACBP

HP01124 60 FWDPIGRYKWDAWNSLGKMSREEAMSAYITEMKLVAQKVIDTVPLGEVAEDMFGYFEPLY

HSACBP 47" MLDFTGKAKWDAWNELKGTSKEDAMKAYINKVEELKKKYGI

XLRPL24 181" DALERTYVPSLKTFQEEIMEKTGIAENRSTGNPTGTNPGRAVRSNHNSHCSCTSHGLEIQ	181"	XLRPL24
HP02241 181' DALERTYVPCLKTLQEEVMEAMGIKETRKYKKVYWY	181	HP02241
XLRPL24 121" SLIDPTDRKPTEIEWRYTEEGERVRVSARSGRIIPKPVLQRRDGIIPEQWKDGPKDTSVE	121"	XLRPL24
HP02241 121' KLVDPMDRKPTEIEWRFTEAGERVRVSTRSGRIIPKPEFPRADGIVPETWIDGPKDTSVE	121	HP02241
61" TVEVLHGKDAGKQGKVTQVVRARNWVVVDGLNTHFRYVGRTDEYRGTYVASEAPLLLNQV		XLRPL24
61: TVEILEGKDAGKQGKVVQVIRQRNWVVVGGLNTHYRYIGKTMDYRGTMIPSEAPLLHRQV		HP02241
1" MRLTLLLEMAAKLKLPHDYRFGMSRPSTLAAKRRNPPGKRRSKVFVEPVSKEEWQYFRGD	=	XLRPL24
1 MRLSALLALASKVTLPPHYRYGMSPPGSVADKRKNPPWIRRRPVVVEPISDEDWYLFCGD	<del>-</del>	HP02241

# 

HP10101	-	1' MKAVKSERERGSRRRHRDGDVVLPAGVVVKQERLSPEVAPPAHRRPDHSGGSPSPPTSEP
HP10101	.09	ARSGHRGNRARGVSRSPPKKKKNKASGRRSKSPRSKRNRSPHHSTVKVKQEREDHPRRGRE
CEC32E8	-	MGRDSPRDRRHRDRSPERRRRSRSRSRDRQTRRD-T
HP10101	121	DRQHREPSEQEHRRARNSDRDRHRGHSHQRRTSNERPGSGQGQGRDRDTQNLQAQEEERE
CEC32E8	36"	RRDDSPKIKREV
HP10101	181	FYNARRREHRORNDVGGGGSESOELVPRPGGNNKEKEVPAKEKPSFELSGALLEDTNTFR
CEC32E8	95"	NFRRPDPVREDGKQYGLEKKEENWG
HP10101	241.	GVVIKYSEPPEARIPKKRWRLYPFKNDEVLPVMYIHRQSAYLLGRHRRIADIPIDHPSCS
СЕС32Е8	148"	148" GVVIKYNEPPEAKKPNARWRLYPFKGEESLQVLYIHRQSAYLIGRDHKIADIPVDHPSCS
HP10101	301'	KQHAVEQYRLVEYTRADGTVGRRVKPYIIDLGSGNGTFLNNKRIEPQRYYELKEKDVLKF *****, *, *, *, **, ***, ***, *********
CEC32E8	208"	KQHAVLQFRSMPFTRDDGTKARRIMPYIIDLGSGNGTFLNEKKIEPQRYIELQEKDMLKF
HP10101	361	GFSSREYVLIHESSDYSEIDRKDDEDEEEEEVSDS
CEC32E8		268" GFSTREYVVMKEREITEEELAEGEDVKKEESD

HP10370	1.	meydeklarfrqahlinpfnkqsqprqheqqpgeevpdvtpeealppchpef
DMC0115	-	1" MSSWKDSLTGIPGTVAQLINESASNLLHASSTLGBTVGLGGBGSTGSGBEAGGSEESGPQ
ир10370	55	elpeqsekqkdavvr
DMCG115	19	61" GAEYRALPIPASIVREQWRLIFTSDANIQDLQAAIAHCRDLVLLSEELSEERRWIVRHILV
пР10370	115	HP10370 115' HLHLKLQELKDPNEDEPNIRVLLEHRFYKEKSVKQTCDK
DMCG115	121"	DLRY
нетоз70	156	156' CNTIIWGLIQTWYTCTGCYYRCHSKCLNLISKPCVSSKVSHQAEYELNICPETGLDBQDY
DMCG115	181"	CTTIIWSVVQNSYVCSDCGFLVHQKCIDGVKRVCAHVLVSERQHPISEICPEIGLASQGY
пР10370	216	RCAECRAP
DMCG115	241"	KCAECGTMENIKNTW
ир10370	276	276' RYLALMVBRPVLRLRETNPLLFBYVEELVETRKLRQDII.LMKPYFITCREAMEARLII.Q
DMC0115	301"	
пР10370	335'	LQDRQHEVENDEMYSVQDLLDVHAGRLGCSLTEIHTLFAKHIKLDCERCQAKGFVCELCR * * * * * * * * * * * * * * * * * * *
DMCG115		361" LGVRRHTAQSNEFYBLSDLSQVESGALSEFLQGVFKAFNDHIR-BCPMCLAQAYICEICS
не10370	395	EGDVLFPFDSHTSVCADCSAVFHRDCYYL
DMCG115	420"	DGCIKCDQ

т о о HP10427 1' MAGPAAAFRILGALSGAAALGFASYGAH---GAQFPDAYGKELFDKANKHHFLHSLALLG

MSPIIRLAGLSGAVAISLGAYGSHVLRDNPSIDERRRTAFDTASRYHLIHSLALLA HP10427 58' VPHCRKPLWAGLLLASGTTLFCTSFYYQALSGDPSIQTLAPAGGTLLLLGWLALAL CEY106G 1"

CEY106G 57" SPAARFPLVTAGLFTAGITLFCGPCYHYSISGVETTRKYTPIGGVTLIIAWLSFIL

# rated of the second

я В

DMCG141 147" ASLKNNFYADILLPRRSLYIMSHTARYKFTHEILAKEHSQFQGALVPRTRRISIICRNEP	147"	DMCG141	
HP10516 153' EWLELLLEPGSLYILRGSARYDFSHEILRDEESFFGERRIPRGRRISVICRSLP	153	HP10516	
DEQRYQQQSSGTATDPNSQGSEPDAAYRI		DMCG141	
HP10516 121' HVDSIKFCGATIAGLSLLSPSVMRLVHT	121	нР10516	
29" YEFDHWDDAIHGFRETERKKWFPKNREILERVRQVAFDGAVMPYVHILDLAPDGVIKP		DMCG141	
HP10516 61' YEYDHWDAAIHGFRETEKSRWSEASRAILQRVQAAAFGPGQTLLSSVHVLDLEARGYIKP	61'	HP10516	
MRITTDFISEPEEQQLHEEIEPYMSRLR	7.	DMCG141	
HP10516 1 MAGTGLLALRTLPGPSWVRGSGPSVLSRLQDAAVVRPGFLSTAEEETLSRELEPELRRRR  * * ** * * * * * * * * * * * * * *	-	HP10516	

# rasinga. Casher

HP10580	٠ <del>٠</del>	MKKFPQEFKADIKFR
DMCG546	61"	 61" TLLKVLIVLLLGTCVLAGYSWSIYGKVITEKFVRPSTLKEIEELKLSKAEAAFKLNLTGS
HP10580	16.	EKAI
DMCG546 121"	121"	GMGTGHKLINSPKQETPSSSSRQKYEAYVPPKRNEISNEARAASAALARIDKKTSREFN-
HP10580	74.	TSQDTIRNQVRKELQAEATV
DMCG546	180"	-
HP10580 131	131,	TLRKDQRDACIKEAILLHFSTDPVAASIMKIYTFNKDQDRVKLGVDTIAKYLDNIHL
DMCG546 240"	240"	ILPKSVWKVR
HP10580	191	EEKYRKIKLQNKVFQERINCLEGTHEFFEAIGFQKVLLPAQDQEDPEEFYVLSETTLAQP *** ** ** ** **
DMCG546 299"	299"	EBKFCKIRMS

1 വ က . В

QSLERHKEQLLAAEPVRAKLDRQRRVFQPSPLASQFELPGDFFNLTAEEIKREQRLRSEA 251 DMCG546 HP10580

LDLPTLVEALKSSEIIPLELDRNIKVLLPSQ-ACRVALPDEFYRLSPEEIKKEQQLRSEA VERLSVLRTKAMREKBEQRGLRKYNYTLLRVRLPDGCLLQGTFYARERLGAVYGFVREAL 311' 353" HP10580

IAQSQMLRTKAMREREGRNLRMYRYALVRVKFPNGLFIQGTFNVYEKISDVFEFVQSCL \*\*\*\*\*\*\*\*\*\*\*\*\* 412" DMCG546

QSDWLPFELLASGGQKLSEDE-NLALNECGLVPSALLTFSWDMAVLEDIKAAGAEPDSIL 371 HP10580

ADESLDFSLVSNSDGKLGDEDLEKTLYDCKLIPNTLLLFSANDTPAPLQTDINYLKEDLL

KPELLSAIEKLL HP10580

532" MLVQAM DMCG546